



BRUHAT BANGALORE MAHANAGARA PALIKE

**Name of the Work : Improvements to Roads, drains, footpath and
park in ward no.08, Byatarayanapura Division (Package includes 11
Works of Rs 1010 lakhs)**

BYATARAYANAPURA DIVISION

DETAILED MEASUREMENT BOOK

2nd PART BILL

**Name of the Work : Improvements to Road, Drain and
Footpath in LKR nagara main road and cross roads in ward
No.8 Kodigehalli**

Bruhat Bengaluru Mahanagara Palike
Bytarayanapura Division

Job Code :-

Name of Agency :- M/s Karthik Enterprises

Bill No :- 2nd Part Bill

Measurements recorded on

Name Of work :- Improvements to Road, Drain and Footpath in LKR nagara main road and cross roads in ward No.8

Kodigehalli

BOQ Item No	Description	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
4	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&I WTD SR 2016-17)									
	LKR nagar main Road									
	LHS From SWD to towards									
	Devinagara Main Road									
	0.00	17.20	1	17.20			0.23	0.30	1.19	CQAL Layout C/S Road Culvert
	17.20	26.70	1	9.50						
	26.70	39.70	1	13.00			0.23	0.30	0.90	
	39.70	51.70	1	12.00			0.23	0.30	0.83	Cross Road Culvert New
	51.70	60.00	1	8.30						
	60.00	85.30	1	25.30			0.23	0.30	1.75	Cross Road to Kannoramma temple Main Road Culvert
	85.30	93.00	1	7.70						
	93.00	95.00	1	2.00						
	95.00	109.60	1	14.60			0.23	0.30	1.01	Apartment Entry
	109.60	117.80	1	8.20						
	117.80	123.30	1	5.50			0.23	0.30	0.38	C/s Road New Culvert
	123.30	129.30	1	6.00						
	129.30	157.30	1	28.00			0.23	0.30	1.93	Apartment Entry
	157.30	164.00	1	6.70						
	164.00	172.00	1	8.00			0.23	0.30	0.55	Apartment Entry
	172.00	180.40	1	8.40						
	180.40	198.40	1	18.00			0.23	0.30	1.24	Main Road Culvert
	198.40	200.00	1	1.60						
	200.00	230.00	1	30.00			0.23	0.30	2.07	
	230.00	250.00	1	20.00			0.23	0.30	1.38	
	250.00	260.00	1	10.00			0.23	0.30	0.69	
	260.00	283.50	1	23.50			0.23	0.30	1.62	
	283.50	293.50	1	10.00			0.23	0.30	0.69	Apartment Entry
	293.50	298.80	1	5.30						
	298.80	305.80	1	7.00			0.23	0.30	0.48	
	RHS From SWD to towards									
	Devinagara Main Road									
	0.00	18.00	1	18.00			0.23	0.30	1.24	
	18.00	30.00	1	12.00			0.23	0.30	0.83	
	30.00	49.00	1	19.00			0.23	0.30	1.31	C/S Road Culvert
	49.00	52.00	1	3.00						
	52.00	79.00	1	27.00			0.23	0.30	1.86	Culvert 1st A Cross
	79.00	84.00	1	5.00						



(2)

Measurements recorded on

Name Of work : - Improvements to Road, Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Chainage										
	84.00	104.30		1	20.30			0.23	0.30	1.40	
	104.30	108.30		1	4.00			0.23	0.30	0.28	
	108.30	113.30		1	5.00						Culvert 1st Cross
	113.30	138.70		1	25.40			0.23	0.30	1.75	
	138.70	143.60		1	4.90						Culvert 2nd Cross
	143.60	148.40		1	4.80						Ganesha Temple
	148.40	160.60		1	12.20			0.23	0.30	0.84	
	160.60	166.70		1	6.10						Culvert 3rd Cross
	166.70	190.90		1	24.20			0.23	0.30	1.67	
	190.90	193.90		1	3.00			0.23	0.30	0.21	
	193.90	199.50		1	5.60			0.23	0.30	0.39	
	199.50	201.00		1	1.50						Main road culvert
	201.00	227.60		1	26.60			0.23	0.30	1.84	
	227.60	234.60		1	7.00						C/S Road no work
	234.60	273.00		1	38.40			0.23	0.30	2.65	
	273.00	279.60		1	6.60						Culvert 6th Cross
	279.60	314.70		1	35.10			0.23	0.30	2.42	
	Total Qty in Cum									35.39	



18/12/2018

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

For KARTHIK ENTERPRISES
Authorised Signatory

Measurements recorded on

Name Of work : - Improvements to Road, Drain and Footpath in LKR nagara main road and cross roads in ward No.8
Kodigehalli

BOQ Item No	Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
5	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&I WTD S.R 2016-17)										
	LKR nagar main Road										
	LHS From SWD to towards Devinagara Main Road										
	0.00	17.20		1	17.20			0.23	0.10	0.40	
	17.20	26.70		1	9.50						CQAL Layout C/S Road Culvert
	26.70	39.70		1	13.00			0.23	0.10	0.30	
	39.70	51.70		1	12.00			0.23	0.10	0.28	
	51.70	60.00		1	8.30						Cross Road Culvert New
	60.00	85.30		1	25.30			0.23	0.10	0.58	
	85.30	93.00		1	7.70						Cross Road to Kannoramma temple
	93.00	95.00		1	2.00						Main Road Culvert
	95.00	109.60		1	14.60			0.23	0.10	0.34	
	109.60	117.80		1	8.20						Apartment Entry
	117.80	123.30		1	5.50			0.23	0.10	0.13	
	123.30	129.30		1	6.00						C/s Road New Culvert
	129.30	157.30		1	28.00			0.23	0.10	0.64	
	157.30	164.00		1	6.70						Apartment Entry
	164.00	172.00		1	8.00			0.23	0.10	0.18	
	172.00	180.40		1	8.40						Apartment Entry
	180.40	198.40		1	18.00			0.23	0.10	0.41	
	198.40	200.00		1	1.60						Main Road Culvert
	200.00	230.00		1	30.00			0.23	0.10	0.69	
	230.00	250.00		1	20.00			0.23	0.10	0.46	
	250.00	260.00		1	10.00			0.23	0.10	0.23	
	260.00	283.50		1	23.50			0.23	0.10	0.54	
	283.50	293.50		1	10.00			0.23	0.10	0.23	
	293.50	298.80		1	5.30						Apartment Entry
	298.80	305.80		1	7.00			0.23	0.10	0.16	
	RHS From SWD to towards Devinagara Main Road										
	0.00	18.00		1	18.00			0.23	0.10	0.41	
	18.00	30.00		1	12.00			0.23	0.10	0.28	
	30.00	49.00		1	19.00			0.23	0.10	0.44	
	49.00	52.00		1	3.00						C/S Road Culvert
	52.00	79.00		1	27.00			0.23	0.10	0.62	
	79.00	84.00		1	5.00						Culvert 1st A Cross
	84.00	104.30		1	20.30			0.23	0.10	0.47	
	104.30	108.30		1	4.00			0.23	0.10	0.09	
	108.30	115.30		1	5.00						Culvert 1st Cross

(4)

Measurements recorded on

Name Of work : - Improvements to Road, Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Chainage										
	113.30	138.70		1	25.40			0.23	0.10	0.58	
	138.70	143.60		1	4.90						Culvert 2nd Cross
	143.60	148.40		1	4.80						Ganesha Temple
	148.40	160.60		1	12.20			0.23	0.10	0.28	
	160.60	166.70		1	6.10						Culvert 3rd Cross
	166.70	190.90		1	24.20			0.23	0.10	0.56	
	190.90	193.90		1	3.00			0.23	0.10	0.07	
	193.90	199.50		1	5.60			0.23	0.10	0.13	
	199.50	201.00		1	1.50						Main road culvert
	201.00	227.60		1	26.60			0.23	0.10	0.61	
	227.60	234.60		1	7.00						C/S Road no work
	234.60	273.00		1	38.40			0.23	0.10	0.88	
	273.00	279.60		1	6.60						Culvert 6th Cross
	279.60	314.70		1	35.10			0.23	0.10	0.81	
							Total Qty in Cum			11.80	



REH-08
22/12

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.R.,
Bangalore.
For KARTHIK K. S. S.
Authorised Signatory

Measurements recorded on

Name Of work : - Improvements to Road, Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
9	Providing and laying cement concrete using 20mm and downsize granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for RCC works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cpost of steel and fabrication charges) Ready Mixed Cement Concrete M 20 for Raft foundation, Column, Footing, main and secondary beams. (P.No.18, I.No.4.48 of PW, P&I WTD SR 2016-17)										
	LKR nagar main Road										
	LHS From SWD to towards Devinagara Main Road										
	0.00	17.20		1	17.20			0.23	0.10	0.40	
	17.20	26.70		1	9.50						CQAL Layout C/S Road Culvert
	26.70	39.70		1	13.00			0.23	0.10	0.30	
	39.70	51.70		1	12.00			0.23	0.10	0.28	
	51.70	60.00		1	8.30						Cross Road Culvert New
	60.00	85.30		1	25.30			0.23	0.10	0.58	
	85.30	93.00		1	7.70						Cross Road to Kannoramma temple
	93.00	95.00		1	2.00						Main Road Culvert
	95.00	109.60		1	14.60			0.23	0.10	0.34	
	109.60	117.80		1	8.20						Apartment Entry
	117.80	123.30		1	5.50			0.23	0.10	0.13	
	123.30	129.30		1	6.00						C/s Road New Culvert
	129.30	157.30		1	28.00			0.23	0.10	0.64	
	157.30	164.00		1	6.70						Apartment Entry
	164.00	172.00		1	8.00			0.23	0.10	0.18	
	172.00	180.40		1	8.40						Apartment Entry
	180.40	198.40		1	18.00			0.23	0.10	0.41	
	198.40	200.00		1	1.60						Main Road Culvert
	200.00	230.00		1	30.00			0.23	0.10	0.69	
	230.00	250.00		1	20.00			0.23	0.10	0.46	
	250.00	260.00		1	10.00			0.23	0.10	0.23	
	260.00	283.50		1	23.50			0.23	0.10	0.54	
	283.50	293.50		1	10.00			0.23	0.10	0.23	
	293.50	298.80		1	5.30						Apartment Entry
	298.80	305.80		1	7.00			0.23	0.10	0.16	
	RHS From SWD to towards Devinagara Main Road										
	0.00	18.00		1	18.00			0.23	0.10	0.41	
	18.00	30.00		1	12.00			0.23	0.10	0.28	
	30.00	49.00		1	19.00			0.23	0.10	0.44	
	49.00	52.00		1	3.00						C/S Road Culvert
	52.00	79.00		1	27.00			0.23	0.10	0.62	
	79.00	84.00		1	5.00						Culvert 1st A Cross
	84.00	104.30		1	20.30			0.23	0.10	0.47	
	104.30	108.30		1	4.00			0.23	0.10	0.09	
	108.30	113.30		1	5.00						Culvert 1st Cross



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Measurements recorded on

Name Of work : - Improvements to Road, Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Chainage										
	113.30	138.70		1	25.40			0.23	0.10	0.58	
	138.70	143.60		1	4.90						Culvert 2nd Cross
	143.60	148.40		1	4.80						Ganesha Temple
	148.40	160.60		1	12.20			0.23	0.10	0.28	
	160.60	166.70		1	6.10						Culvert 3rd Cross
	166.70	190.90		1	24.20			0.23	0.10	0.56	
	190.90	193.90		1	3.00			0.23	0.10	0.07	
	193.90	199.50		1	5.60			0.23	0.10	0.13	
	199.50	201.00		1	1.50						Main road culvert
	201.00	227.60		1	26.60			0.23	0.10	0.61	
	227.60	234.60		1	7.00						C/S Road no work
	234.60	273.00		1	38.40			0.23	0.10	0.88	
	273.00	279.60		1	6.60						Culvert 6th Cross
	279.60	314.70		1	35.10			0.23	0.10	0.81	
	Total Qty in Cum									11.80	



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JBN 08
23/12

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Measurements recorded on

Name Of work : - Improvements to Road, Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
27	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&I WTD SR 2016-17)									
	LKR nagar main Road									
	LHS From SWD Drain to Devinagara Main Road									
	0.00 30.00		1.00	30.00	3.65	3.40	3.53		105.75	
	30.00 60.00		1.00	30.00	3.40	2.60	3.00		90.00	
	60.00 95.70		1.00	35.70	2.60	1.75	2.18		77.65	
	95.70 97.20		1.00	1.50						Culvert
	97.20 112.00		1.00	14.80	1.20	1.20	1.20		17.76	
	112.00 127.00		1.00	15.00	2.50	2.50	2.50		37.50	
	127.00 157.00		1.00	30.00	2.50	2.70	2.60		78.00	
	157.00 173.00		1.00	16.00	1.80	1.80	1.80		28.80	
	173.00 202.00		1.00	29.00	2.80	2.80	2.80		81.20	
	202.00 203.50		1.00	1.50						Culvert
	203.50 233.50		1.00	30.00	2.20	2.00	2.10		63.00	
	233.50 263.50		1.00	30.00	2.00	2.20	2.10		63.00	
	263.50 293.50		1.00	30.00	2.20	1.70	1.95		58.50	
	293.50 317.00		1.00	23.50	1.70	1.20	1.45		34.08	
	RHS From SWD Drain to Devinagara Main Road									
	0.00 30.00		1.00	30.00	0.60	1.40	1.00		30.00	
	30.00 60.00		1.00	30.00	1.40	0.95	1.18		35.25	
	60.00 95.70		1.00	35.70	0.95	1.20	1.08		38.38	
	95.70 97.20		1.00	1.50						Culvert
	97.20 127.00		1.00	29.80	1.20	1.65	1.43		42.47	
	127.00 157.00		1.00	30.00	1.65	1.20	1.43		42.75	
	157.00 173.00		1.00	16.00	1.20	0.95	1.08		17.20	
	173.00 202.00		1.00	29.00	0.95	2.00	1.48		42.78	
	202.00 203.50		1.00	1.50						Culvert
	203.50 233.50		1.00	30.00	2.00	1.25	1.63		48.75	
	233.50 263.50		1.00	30.00	1.25	0.70	0.98		29.25	
	263.50 293.50		1.00	30.00	0.70	0.95	0.83		24.75	
	293.50 317.00		1.00	23.50	0.95	0.50	0.73		17.04	
	Total Qty in Sqm								1103.84	



Manu
4/1/18

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

For KARTHIK ENTERPRISES
Authorized Signatory

Measurements recorded on

Name Of work : - Improvements to Road, Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Chainage										
28	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.161, I.No.21.2 of PW,P&I WTD SR 2016-17)										
	LKR nagar main Road										
	From Railway Gate to Towards SWD Drain										
	250.00	270.00		1.00	20.00	8.10	8.80	8.45		169.00	
	270.00	285.00		1.00	15.00	8.80	8.30	8.55		128.25	
	285.00	300.00		1.00	15.00	8.30	8.70	8.50		127.50	
	300.00	315.00		1.00	15.00	8.70	6.80	7.75		116.25	
	315.00	338.50		1.00	23.50	6.80	7.90	7.35		172.73	
	From SWD Drain to Devinagara Main Road										
	0.00	15.00		1.00	15.00	8.50	8.90	8.70		130.50	
	15.00	30.00		1.00	15.00	8.90	9.00	8.95		134.25	
	30.00	45.00		1.00	15.00	9.00	8.80	8.90		133.50	
	45.00	60.00		1.00	15.00	8.80	8.80	8.80		132.00	
	60.00	75.00		1.00	15.00	8.80	8.30	8.55		128.25	
	75.00	96.00		1.00	21.00	8.30	8.80	8.55		179.55	
	96.00	97.50		1.00	1.50					0.00	
	97.50	105.00		1.00	7.50	9.70	9.40	9.55		71.63	
	105.00	120.00		1.00	15.00	9.40	8.70	9.05		135.75	
	120.00	135.00		1.00	15.00	8.70	9.30	9.00		135.00	
	135.00	150.00		1.00	15.00	9.30	9.70	9.50		142.50	
	150.00	165.00		1.00	15.00	9.70	10.30	10.00		150.00	
	165.00	180.00		1.00	15.00	10.30	10.30	10.30		154.50	
	180.00	198.00		1.00	18.00	10.30	10.20	10.25		184.50	
	198.00	199.50		1.00	1.50					0.00	
	199.50	210.00		1.00	10.50	10.20	10.00	10.10		106.05	
	210.00	225.00		1.00	15.00	10.00	9.90	9.95		149.25	
	225.00	240.00		1.00	15.00	9.90	10.00	9.95		149.25	
	240.00	255.00		1.00	15.00	10.00	9.70	9.85		147.75	
	255.00	270.00		1.00	15.00	9.70	9.60	9.65		144.75	
	270.00	285.00		1.00	15.00	9.60	10.30	9.95		149.25	
	285.00	300.00		1.00	15.00	10.30	10.40	10.35		155.25	
	300.00	313.00		1.00	13.00	10.40	10.40	10.40		135.20	
	Deduction Prime Coat -Same As Above Quantity									-1103.84	
	Total Qty in Sqm									2558.56	



For KARTHIK ENTERPRISES
Pranav
 Authorized Signatory

Pranav
 TEJUS
 6/1/18

Pranav
 Assistant Executive Engineer,
 Kodigehalli Sub Division,
 Yelahanka Zone, B.B.M.P.,
 Bangalore.

10

Measurements recorded on											
Name Of work : - Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli											
BOQ Item No	Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Chainage										
29	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.1614.No.21.7 of PW,P&IWD SR of 2016-17)										
	For Laying DBM										
	LKR nagar main Road										
	From Railway Gate to Towards SWD Drain										
	250.00	270.00		1.00	20.00	8.10	8.80	8.45		169.00	
	270.00	285.00		1.00	15.00	8.80	8.30	8.55		128.25	
	285.00	300.00		1.00	15.00	8.30	8.70	8.50		127.50	
	300.00	315.00		1.00	15.00	8.70	6.80	7.75		116.25	
	315.00	338.50		1.00	23.50	6.80	7.90	7.35		172.73	
	From SWD Drain to Devinagara Main Road										
	0.00	15.00		1.00	15.00	8.50	8.90	8.70		130.50	
	15.00	30.00		1.00	15.00	8.90	9.00	8.95		134.25	
	30.00	45.00		1.00	15.00	9.00	8.80	8.90		133.50	
	45.00	60.00		1.00	15.00	8.80	8.80	8.80		132.00	
	60.00	75.00		1.00	15.00	8.80	8.30	8.55		128.25	
	75.00	96.00		1.00	21.00	8.30	8.80	8.55		179.55	
	96.00	97.50		1.00	1.50					0.00	
	97.50	105.00		1.00	7.50	9.70	9.40	9.55		71.63	
	105.00	120.00		1.00	15.00	9.40	8.70	9.05		135.75	
	120.00	135.00		1.00	15.00	8.70	9.30	9.00		135.00	
	135.00	150.00		1.00	15.00	9.30	9.70	9.50		142.50	
	150.00	165.00		1.00	15.00	9.70	10.30	10.00		150.00	
	165.00	180.00		1.00	15.00	10.30	10.30	10.30		154.50	
	180.00	198.00		1.00	18.00	10.30	10.20	10.25		184.50	
	198.00	199.50		1.00	1.50					0.00	
	199.50	210.00		1.00	10.50	10.20	10.00	10.10		106.05	
	210.00	225.00		1.00	15.00	10.00	9.90	9.95		149.25	
	225.00	240.00		1.00	15.00	9.90	10.00	9.95		149.25	
	240.00	255.00		1.00	15.00	10.00	9.70	9.85		147.75	
	255.00	270.00		1.00	15.00	9.70	9.60	9.65		144.75	
	270.00	285.00		1.00	15.00	9.60	10.30	9.95		149.25	
	285.00	300.00		1.00	15.00	10.30	10.40	10.35		155.25	
	300.00	313.00		1.00	13.00	10.40	10.40	10.40		135.20	
	For Laying BC										
	LKR nagar main Road										
	From Railway Gate to Towards SWD Drain										
	250.00	270.00		1.00	20.00	8.10	8.80	8.45		169.00	
	270.00	285.00		1.00	15.00	8.80	8.30	8.55		128.25	
	285.00	300.00		1.00	15.00	8.30	8.70	8.50		127.50	
	300.00	315.00		1.00	15.00	8.70	6.80	7.75		116.25	
	315.00	338.50		1.00	23.50	6.80	7.90	7.35		172.73	



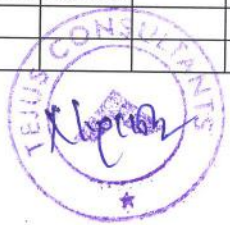
For KARTHIK ENTERPRISES
 Authorized Signatory
 6/1/18

Assistant Executive Engineer,
 Kodigehalli Sub Division,
 Yelahanka Zone, B.B.M.P.,
 Bangalore.

11

Name Of work : - Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Chainage										
	From SWD Drain to Devinagara Main Road										
	0.00	15.00		1.00	15.00	8.50	8.90	8.70		130.50	
	15.00	30.00		1.00	15.00	8.90	9.00	8.95		134.25	
	30.00	45.00		1.00	15.00	9.00	8.80	8.90		133.50	
	45.00	60.00		1.00	15.00	8.80	8.80	8.80		132.00	
	60.00	75.00		1.00	15.00	8.80	8.30	8.55		128.25	
	75.00	96.00		1.00	21.00	8.30	8.80	8.55		179.55	
	96.00	97.50		1.00	1.50					0.00	
	97.50	105.00		1.00	7.50	9.70	9.40	9.55		71.63	
	105.00	120.00		1.00	15.00	9.40	8.70	9.05		135.75	
	120.00	135.00		1.00	15.00	8.70	9.30	9.00		135.00	
	135.00	150.00		1.00	15.00	9.30	9.70	9.50		142.50	
	150.00	165.00		1.00	15.00	9.70	10.30	10.00		150.00	
	165.00	180.00		1.00	15.00	10.30	10.30	10.30		154.50	
	180.00	198.00		1.00	18.00	10.30	10.20	10.25		184.50	
	198.00	199.50		1.00	1.50					0.00	
	199.50	210.00		1.00	10.50	10.20	10.00	10.10		106.05	
	210.00	225.00		1.00	15.00	10.00	9.90	9.95		149.25	
	225.00	240.00		1.00	15.00	9.90	10.00	9.95		149.25	
	240.00	255.00		1.00	15.00	10.00	9.70	9.85		147.75	
	255.00	270.00		1.00	15.00	9.70	9.60	9.65		144.75	
	270.00	285.00		1.00	15.00	9.60	10.30	9.95		149.25	
	285.00	300.00		1.00	15.00	10.30	10.40	10.35		155.25	
	300.00	313.00		1.00	13.00	10.40	10.40	10.40		135.20	
						Total Qty in Sqm				7324.80	



For KARTHIK ENTERPRISES
Pranav
Signatory

Pranish
Authorised Signatory

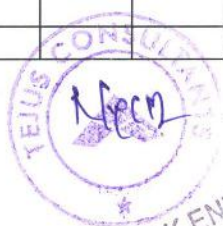
12/11/18
 JFW 12/18
 6/1/18

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Measurements recorded on

Name Of work : - Improvements to Road, Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
30	KSRRB M500-16. Providing and laying dense bituminous macadam 50-75mm compacted thickness with 4.5% VG-30 Bitumen using 40/60 TPH capacity H.M.P, using crushed aggregates of grading II, premixed with VG 30 grade bituminous binder and transporting the hot mix to work site, laying with mechanical paver to the required grade level and alignment rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10, complete in all respects complete as per specification MORTH specification No. 507 (P.No.163 L.No. 21.17.6 of PW,P&IWD S.R 2016-17)									
	LKR nagar main Road									
	From Railway Gate to Towards SWD Drain									
	250.00	270.00	1.00	20.00	8.10	8.80	8.45	0.05	8.45	
	270.00	285.00	1.00	15.00	8.80	8.30	8.55	0.05	6.41	
	285.00	300.00	1.00	15.00	8.30	8.70	8.50	0.05	6.38	
	300.00	315.00	1.00	15.00	8.70	6.80	7.75	0.05	5.81	
	315.00	338.50	1.00	23.50	6.80	7.90	7.35	0.05	8.64	
	From SWD Drain to Devinagara Main Road									
	0.00	15.00	1.00	15.00	8.50	8.90	8.70	0.05	6.53	
	15.00	30.00	1.00	15.00	8.90	9.00	8.95	0.05	6.71	
	30.00	45.00	1.00	15.00	9.00	8.80	8.90	0.05	6.68	
	45.00	60.00	1.00	15.00	8.80	8.80	8.80	0.05	6.60	
	60.00	75.00	1.00	15.00	8.80	8.30	8.55	0.05	6.41	
	75.00	96.00	1.00	21.00	8.30	8.80	8.55	0.05	8.98	
	96.00	97.50	1.00	1.50						Culvert
	97.50	105.00	1.00	7.50	9.70	9.40	9.55	0.05	3.58	
	105.00	120.00	1.00	15.00	9.40	8.70	9.05	0.05	6.79	
	120.00	135.00	1.00	15.00	8.70	9.30	9.00	0.05	6.75	
	135.00	150.00	1.00	15.00	9.30	9.70	9.50	0.05	7.13	
	150.00	165.00	1.00	15.00	9.70	10.30	10.00	0.05	7.50	
	165.00	180.00	1.00	15.00	10.30	10.30	10.30	0.05	7.73	
	180.00	198.00	1.00	18.00	10.30	10.20	10.25	0.05	9.23	
	198.00	199.50	1.00	1.50						Culvert
	199.50	210.00	1.00	10.50	10.20	10.00	10.10	0.05	5.30	
	210.00	225.00	1.00	15.00	10.00	9.90	9.95	0.05	7.46	
	225.00	240.00	1.00	15.00	9.90	10.00	9.95	0.05	7.46	
	240.00	255.00	1.00	15.00	10.00	9.70	9.85	0.05	7.39	
	255.00	270.00	1.00	15.00	9.70	9.60	9.65	0.05	7.24	
	270.00	285.00	1.00	15.00	9.60	10.30	9.95	0.05	7.46	
	285.00	300.00	1.00	15.00	10.30	10.40	10.35	0.05	7.76	
	300.00	313.00	1.00	13.00	10.40	10.40	10.40	0.05	6.76	
							Total Qty in Cum		183.12	



For KARTHIK ENTERPRISES
Pranodh
 Authorised Signatory

Pranodh
 JCH-08
 6/1/18

Key
 6/1/18
 Assistant Executive Engineer
 Kodigehalli Sub Division,
 Yelahanka Zone, B.B.M.P.
 Bangalore.

Measurements recorded on 8/1/18											
Name Of work : - Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli											
BOQ Item No	Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Chainage										
31	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&IWD S.R 2016-17)										
	LKR nagar main Road										
	From Railway Gate to Towards SWD Drain										
	250.00	270.00		1.00	20.00	8.10	8.80	8.45	0.04	6.76	
	270.00	285.00		1.00	15.00	8.80	8.30	8.55	0.04	5.13	
	285.00	300.00		1.00	15.00	8.30	8.70	8.50	0.04	5.10	
	300.00	315.00		1.00	15.00	8.70	6.80	7.75	0.04	4.65	
	315.00	338.50		1.00	23.50	6.80	7.90	7.35	0.04	6.91	
	From SWD Drain to Devinagara Main Road										
	0.00	15.00		1.00	15.00	8.50	8.90	8.70	0.04	5.22	
	15.00	30.00		1.00	15.00	8.90	9.00	8.95	0.04	5.37	
	30.00	45.00		1.00	15.00	9.00	8.80	8.90	0.04	5.34	
	45.00	60.00		1.00	15.00	8.80	8.80	8.80	0.04	5.28	
	60.00	75.00		1.00	15.00	8.80	8.30	8.55	0.04	5.13	
	75.00	96.00		1.00	21.00	8.30	8.80	8.55	0.04	7.18	
	96.00	97.50		1.00	1.50						Culvert
	97.50	105.00		1.00	7.50	9.70	9.40	9.55	0.04	2.87	
	105.00	120.00		1.00	15.00	9.40	8.70	9.05	0.04	5.43	
	120.00	135.00		1.00	15.00	8.70	9.30	9.00	0.04	5.40	
	135.00	150.00		1.00	15.00	9.30	9.70	9.50	0.04	5.70	
	150.00	165.00		1.00	15.00	9.70	10.30	10.00	0.04	6.00	
	165.00	180.00		1.00	15.00	10.30	10.30	10.30	0.04	6.18	
	180.00	198.00		1.00	18.00	10.30	10.20	10.25	0.04	7.38	
	198.00	199.50		1.00	1.50						Culvert
	199.50	210.00		1.00	10.50	10.20	10.00	10.10	0.04	4.24	
	210.00	225.00		1.00	15.00	10.00	9.90	9.95	0.04	5.97	
	225.00	240.00		1.00	15.00	9.90	10.00	9.95	0.04	5.97	
	240.00	255.00		1.00	15.00	10.00	9.70	9.85	0.04	5.91	
	255.00	270.00		1.00	15.00	9.70	9.60	9.65	0.04	5.79	
	270.00	285.00		1.00	15.00	9.60	10.30	9.95	0.04	5.97	
	285.00	300.00		1.00	15.00	10.30	10.40	10.35	0.04	6.21	
	300.00	313.00		1.00	13.00	10.40	10.40	10.40	0.04	5.41	
	Total Qty in Cum									146.50	



For KARTHIK ENTERPRISES
Pranav
 Authorised Signatory

Pranav
 8/1/18

Pranav
 9/1/18
 Assistant Executive Engineer,
 Kodigehalli Sub Division,
 Yelahanka Zone, B.B.M.P.,
 Bangalore.

(13)

Measurements recorded on 29/11/12

Name Of work : - Improvements to Road, Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Chainage										
24	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No.179, I.No. 24.1 of PW,P&I WTD SR 2015-16)										
	Lkr Nagara main Road										
	LHS From SWD to towards Devinagara Main Road										
	0.00	17.20		1	17.20			0.30		5.16	
	26.70	39.70		1	13.00			0.30		3.90	
	39.70	51.70		1	12.00			0.30		3.60	
	60.00	85.30		1	25.30			0.30		7.59	
	95.00	109.60		1	14.60			0.30		4.38	
	Approach			1	2.40			0.30		0.72	
	117.80	123.30		1	5.50			0.30		1.65	
	129.30	157.30		1	28.00			0.30		8.40	
	Approach			1	2.00			0.30		0.60	
	164.00	172.00		1	8.00			0.30		2.40	
	Approach			1	2.80			0.30		0.84	
	180.40	198.40		1	18.00			0.30		5.40	
	200.00	230.00		1	30.00			0.30		9.00	
	230.00	260.00		1	30.00			0.30		9.00	
	260.00	293.50		1	33.50			0.30		10.05	
	Approach			1	3.00			0.30		0.90	
	298.80	305.80		1	7.00			0.30		2.10	
	RHS From SWD to towards Devinagara Main Road										
	0.00	30.00		1	30.00			0.30		9.00	
	30.00	49.00		1	19.00			0.30		5.70	
	52.00	79.00		1	27.00			0.30		8.10	
	84.00	104.30		1	20.30			0.30		6.09	
	104.30	108.30		1	2.50			0.30		0.75	
	113.30	138.70		1	25.40			0.30		7.62	
	148.40	160.60		1	12.20			0.30		3.66	
	166.70	193.90		1	27.20			0.30		8.16	
	201.00	227.60		1	25.10			0.30		7.53	
	234.60	273.00		1	38.40			0.30		11.52	
	279.60	314.70		1	35.10			0.30		10.53	
	Total Qty in Sqm									154.35	



M. M. M.
28/12/08

For KARTHIK ENTERPRISES
Authorized Signatory

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Measurements recorded on 29/11/18

Name Of work : - Improvements to Road, Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

Kodigehalli											
BOQ Item No	Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Chainage										
32	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORH Specification No. 803.(P.No.185, I.No.24.15 of PW,P&I WTD SR 2016-17)										
	LKR nagar main Road										
	From Railway Gate to Towards SWD Drain										
	Edge Lane Marking										
	250.00	270.00		2.00	20.00			0.15		6.00	
	270.00	285.00		2.00	15.00			0.15		4.50	
	285.00	300.00		2.00	15.00			0.15		4.50	
	300.00	315.00		2.00	15.00			0.15		4.50	
	315.00	338.50		2.00	23.50			0.15		7.05	
	Centre Lane Marking										
	250.00	270.00		0.50	20.00			0.15		1.50	
	270.00	285.00		0.50	15.00			0.15		1.13	
	285.00	300.00		0.50	15.00			0.15		1.13	
	300.00	315.00		0.50	15.00			0.15		1.13	
	315.00	338.50		0.50	23.50			0.15		1.76	
	From SWD Drain to Devinagara Main Road										
	Edge Lane Marking										
	0.00	15.00		2.00	15.00			0.15		4.50	
	15.00	30.00		2.00	15.00			0.15		4.50	
	30.00	45.00		2.00	15.00			0.15		4.50	
	45.00	60.00		2.00	15.00			0.15		4.50	
	60.00	75.00		2.00	15.00			0.15		4.50	
	75.00	96.00		2.00	21.00			0.15		6.30	
	96.00	97.50		2.00	1.50						Culvert
	97.50	105.00		2.00	7.50			0.15		2.25	
	105.00	120.00		2.00	15.00			0.15		4.50	
	120.00	135.00		2.00	15.00			0.15		4.50	
	135.00	150.00		2.00	15.00			0.15		4.50	
	150.00	165.00		2.00	15.00			0.15		4.50	
	165.00	180.00		2.00	15.00			0.15		4.50	
	180.00	198.00		2.00	18.00			0.15		5.40	
	198.00	199.50		2.00	1.50						Culvert
	199.50	210.00		2.00	10.50			0.15		3.15	
	210.00	225.00		2.00	15.00			0.15		4.50	
	225.00	240.00		2.00	15.00			0.15		4.50	
	240.00	255.00		2.00	15.00			0.15		4.50	
	255.00	270.00		2.00	15.00			0.15		4.50	
	270.00	285.00		2.00	15.00			0.15		4.50	
	285.00	300.00		2.00	15.00			0.15		4.50	
	300.00	313.00		2.00	13.00			0.15		3.90	



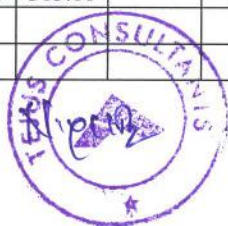
15

15

Measurements recorded on 29/1/18

Name Of work : - Improvements to Road, Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Chainage										
	Centre Lane Marking										
	0.00	15.00		0.50	15.00			0.15		1.13	
	15.00	30.00		0.50	15.00			0.15		1.13	
	30.00	45.00		0.50	15.00			0.15		1.13	
	45.00	60.00		0.50	15.00			0.15		1.13	
	60.00	75.00		0.50	15.00			0.15		1.13	
	75.00	96.00		0.50	21.00			0.15		1.58	
	96.00	97.50		0.50	1.50						Culvert
	97.50	105.00		0.50	7.50			0.15		0.56	
	105.00	120.00		0.50	15.00			0.15		1.13	
	120.00	135.00		0.50	15.00			0.15		1.13	
	135.00	150.00		0.50	15.00			0.15		1.13	
	150.00	165.00		0.50	15.00			0.15		1.13	
	165.00	180.00		0.50	15.00			0.15		1.13	
	180.00	198.00		0.50	18.00			0.15		1.35	
	198.00	199.50		0.50	1.50						Culvert
	199.50	210.00		0.50	10.50			0.15		0.79	
	210.00	225.00		0.50	15.00			0.15		1.13	
	225.00	240.00		0.50	15.00			0.15		1.13	
	240.00	255.00		0.50	15.00			0.15		1.13	
	255.00	270.00		0.50	15.00			0.15		1.13	
	270.00	285.00		0.50	15.00			0.15		1.13	
	285.00	300.00		0.50	15.00			0.15		1.13	
	300.00	313.00		0.50	13.00			0.15		0.98	
							Total Qty in Sqm			149.44	



For KARTHIK ENTERPRISES
Pranav
 Authorised Signatory

Pranav
 H-08

Pranav
 29/1/18
 Assistant Executive Engineer
 Kodigehalli Sub Division,
 Yelahanka Zone, B.B.M.P.,
 Bangalore.

Measurements recorded on 29/1/18

Name Of work : - Improvements to Road, Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
36	Providing and fixing M S Grating									
	LKR nagar main Road-LHS									
	0.00 313.00		63	0.25			0.25		3.91	250/5
	RHS									
	0.00 313.00		63.00	0.25			0.25		3.94	
							Total Qty in Sqm		7.85	

For KARTHIK ENTERPRISES
Pranoch
 Authorised Signatory

Manu
 JEW-08

Deep
 Assistant Executive Engineer,
 Kodigehalli Sub Division,
 Yelahanka Zone, B.B.M.P.,
 Bangalore.

(17)

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Measurements recorded on 29/1/18

Name Of work : - Improvements to Road, Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
37	KSRRB M2600-5.(iv) Providing and filling joint sealing compound as per drawings and technical specifications with coarse sand and 6 per cent bitumen by weight complete as per specifications MORTH Specification No. 2605(P.No.243, I.No.31.5 of PW,P&IWD S.R 2016-17)									
	LKR nagar main Road-LHS									
	0.00	313.00		1.00	242.00				242.00	
	RHS									
	0.00	313.00		1.00	270.00				270.00	
	Total Qty in Rmt								512.00	



For KARTHIK ENTERPRISES
Bramoch
 Authorised Signatory

Ammin
 RE-08

Ammin
 Assistant Executive Engineer
 Kodigehalli Sub Division
 Yelahanka Zone, B.B.M.P.
 Bangalore

18

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Measurements recorded on 29/1/18

Name Of work : - Improvements to Road, Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Chainage									
39	KSRRB M800-35. Supply and Installation of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and <u>reflective panels</u> with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000kg tested in accordance to specification of category A of MORTH Circular No RW/NH/33023/10-97-Do III Dt 11.06.1997. The Height, width and length shall no exceed 50mm, 100mm, and 102mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19mm and height not less than 30 mm) from the body is to be a minimum vakuue of 500 kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer with 2 years warranty for the reflectivity from the original manufacturer is mandatory along with necessary test certification from the certified laboratory. Third party test certificates from a reputed test laboratory shall be submitted with seal and signature in originals. (P.No.189, I.No.24.41 of PW,P&IWTDR SR 2016-17)									
	LKR nagar main Road									
			3.00	88.00					264.00	5m Interval
									264.00	
									Total Qty in Nos	264.00


 For KARTHIK ENTERPRISES

 Authorised Signatory


 TSV

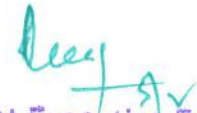

 Assistant Executive Engineer,
 Kodigehalli Sub Division,
 Yelahanka Zone, B.B.M.P.,
 Bangalore.

Measurements recorded on 29/1/18										
Name Of work : - Improvements to Road, Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli										
BOQ Item No	Description	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
40	Manufacturing, Supply & Fixing of Retro- Reflection Road name sign board single Arrow size 1.98X0.9m size made out if wide angle cube corner micro prismatic grade sheeting confirming to IRC 67:2010 & type XI standards of ASTM D 4956-09 specifications and fixed over 2mm thick aluminium sheet back support frame of stainless stell supported by 30NB 1.2mm thick stainless steel pipe all around and 65NB 1.5mm thick pipe vertical post (AISI 202 Grade) firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 30cmx30cmx45cm etc.complete. The information message shall be made out of cut out letters in blue colour transparent overlay film as per IRC 67-2010 Guidelines, 7 years pre-qualification warranty for retro reflective sheeting from the original sheeting manufacturer and a certied copy of three years outdoor exposure report from an independent test lab for the product offered shall be submitted by the contractor. The sign board shall be Retro-Reflective Type XL									
	LKR nagar main Road								2.00	
			2.00						2.00	
									Total Qty in Nos	2.00


 For KARTHIK ENTERPRISES

 Authorised Signatory


 Prasad


 Assistant Executive Engineer
 Kodigehalli Sub Division,
 Yelahanka Zone, B.B.M.P.,
 Bangalore.

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Measurements recorded on 29/1/18										
Name Of work : - Improvements to Road, Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli										
BOQ Item No	Description Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
77	Add cost of Waste Plastic @ 8% of Bitumen Weight									
	Bitumen = 141 kg/cum						Total Qty in Kgs		1652.47	For BC Qty



Handwritten signature
29/08

Handwritten signature
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.